



(43) International Publication Date 8 April 2004 (08.04.2004)

PCT

(10) International Publication Number WO 2004/028552 A1

- (51) International Patent Classification⁷: A61K 38/16, A61P 35/00, C12N 15/12, A01K 67/00, 67/027
- (21) International Application Number:

PCT/AU2003/001266

(22) International Filing Date:

25 September 2003 (25.09.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/413,978

25 September 2002 (25.09.2002) US

- (71) Applicant (for all designated States except US): GARVAN INSTITUTE OF MEDICAL RESEARCH [AU/AU]; C/St Vincent's Hospital, 384 Victoria Street, Darlinghurst, New South Wales 2010 (AU).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): ORMANDY, Christopher, J. [AU/AU]; 19 Coolaroo Road, Lane Cove, New South Wales 2066 (AU). NAYLOR, Matthew, John [AU/GB]; 2 Egerton House, Slate Wharf, Castlefield, Greater Manchester M15 4SY (GB).

- (74) Agent: FB RICE & CO; 139 Rathdowne Street, Carlton, Victoria 3053 (AU).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- with amended claims

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD FOR INDUCING MAMMARY EPITHELIAL CELL DIFFERENTIATION

(57) Abstract: The present invention relates to compositions and methods for inducing mammary epithelial cell differentiation in mammalian subjects. More specifically, the present invention relates to methods for inducing mammary epithelial cell differentiation which comprise increasing the levels of galanin in the mammary tissue of the subject. In one aspect the present invention relates to a method of increasing milk production in a lactating mammal which comprises increasing the level of galanin or an analog thereof in the mammal. In another aspect the present invention relates to a method of enhancing mammary development in a mammal, the method comprising administering to the mammal galanin or an analog thereof in conjunction with prolactin or an analog thereof. In yet another aspect the present invention relates to a method for inhibiting mammary epithelial tumours by administering an inhibitorially effective therapeutic amount of galanin or an analog thereof.



O 2004/028552